

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001509**Date Inspected:** 01-Mar-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** OBG 3BE, OBG 5AW, OBG 5BW**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

OBG 3BE

ZPMC personnel cleaning of the interior surfaces in process. ZPMC also in process of application of "mist" coat of Interfine 979. ZPMC monitored ambient conditions which were within the requirements of the contract documents and the manufacturers product data sheet parameters. International Protective Coatings technical service representative Zili Peng was onsite and monitored all mixing and thinning operations.

Miscellaneous Metal

Degreasing and edge conditioning in process outside the paint facility.

Miscellaneous Metal

Blast inspection performed on corner assembly plates and splice plates, typical fabrication defects were ground then re-blasted to re-establish the profile Interzinc 22 was then applied via air spray methods. Inspection was performed jointly with ZPMC QC ABF QA representative and Caltrans QA Lumley.

OBG 5AW

Joint Inspection was performed with ZPMC QC & ABF QA representative on three box girder faying surfaces and corner bracket assemblies' base metal. SSPC SP-10 was achieved and application of Interzinc 22 commenced utilizing air spray methods. Profiles ranged from 78-85um.

OBG5 BW

Joint Inspection was performed with ZPMC QC & ABF QA representative on two box girder faying surfaces and

SOURCE INSPECTION REPORT

(Continued Page 2 of 2)

corner bracket assemblies' base metal. SSPC SP-10 was achieved and application of Interzinc 22 commenced utilizing air spray methods. Profiles ranged from 80-82um.

OBG 3BE

Performed adhesion testing on exterior surfaces coated with Interzinc 22 the following values were observed: 1) 8.61MPa 2) 9.68MPa 3) 10.87MPa 4) 9.05 MPa. ZPMC then affixed dollies on the interior of this segment for adhesion testing of the Interzinc 22 coated surfaces.

Summary of Conversations:

ZPMC Production Manager inquired as to edge conditioning of miscellaneous metal due to the fact that the plates were small. Caltrans QA Lumley informed ZPMC production manager that size of plate was not a factor for reduction of specified work, and informed him that the edges require conditioning per the contract documents.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang. (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer
